INTERNATIONAL SEARCH REPORT

International application No.

	SSIFICATION OF SUBJECT MATTER							
IPC(7) : G01 N 33/53, 33/567; c07 k 16/18, 7/64 US CL : 435/7.2: 530/317, 388.25								
US CL: 435/7.2; 530/317, 388.25 According to International Patent Classification (IPC) or to both national classification and IPC								
	DS SEARCHED	dona crasarreation and n c						
Minimum do	commentation searched (classification system followed b 15/7.2; 530/317, 388.25	y classification symbols)						
Documentation	on searched other than minimum documentation to the	extent that such documents are included in	the fields searched					
Electronic da	ta base consulted during the international search (name	e of data base and, where practicable, search	terms used)					
	UMENTS CONSIDERED TO BE RELEVANT							
Category *	Citation of document, with indication, where a		Relevant to claim No.					
Y	PGPUB 20030235868 (HOOGENBOOM et al.) 25 I	December 2003, Abstract and detailed	1-78					
Y	description of the inventnio, in particular.		1-78					
	US 5,861,381 (CHAMBON et al) 19 January 1999, inventnio, in particular.							
Y	PGPUB 20040054137 (THOMPSON et al) August 4	th. 2003. Abstract and the the brief	1-78					
	description the invention, in particular.	,,						
Y		ŀ	1-78					
Y	PBPUB 20050042209 (KUFE et al) Prioirty date Sej description of the invention in particular.	ptember 11th, 2000, Abstract and Brief	1-78					
Further	documents are listed in the continuation of Box C.	See patent family annex.						
		"I later document published after the inters						
Special categories of cited documents: "A" document defining the general state of the srt which is not considered to be of particular relevants.		date and not in conflict with the applicate principle or theory underlying the inven-	tion but cited to understand the					
	plication or patent published on or after the international filing date	"X" document of particular relevance; the cla considered novel or cannot be considere when the document is taken alone	nimed invention cannot be d to involve an inventive step					
"L" document which may throw doubts on priority olaims(s) or which is cited to exhabits the publication date of another citation or other special reason (as specified)		"Y" document of particular relevance; the of considered to involve an inventive step	when the document is combined					
"O" document	referring to an oral disclosure, use, exhibition or other means	with one or more other such documents, obvious to a person skilled in the art	such combination being					
"P" document priority d	spublished prior to the international filing date but later than the ate claimed	"&" document member of the same patent fa	mily					
Date of the actual completion of the international search		Date of mailing of the international search	report					
06 February 2006 (06.02,2006)		22 MAR 2007						
Name and mailing address of the ISA/US		Authorized officer						
Mail Stop PCT, Atm: ISA/US Commissioner of Patents		Parithosh K. Tungatuthi	(HICKEOK)					
P.O.	Box 1450	1 - 7 // -	オン イコン					
	candria, Virginia 22313-1450	Telephone No. (571) 272-9600	V/)02					

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING	G AUTHORITY							
To: STEPHANA E. PATTON EDWARDS & ANGELL, LLP PO BOX 58874			PCT					
BOSTON, MA 02205			WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHOR ITY					
				(PCT Rule 43bis.1)				
			Date of mailing (daymonth/year) 2.2 MAR 2007					
Applicant's or agent's file reference 59849 PCT (FOR FURTHER ACTION See paragraph 2 below					
International application No.	. Internat	ional filing date	(day/month/year)	Priority date (day/month/year)				
PCT/US04/41921		ember 2004 (10.1		12 December 2003 (12:12:2003)				
International Patent Classification	on (IPC) or both na	tional classificat	ion and IPC					
IPC(7): G01 N 33/53, 33/567; c	07 k 16/18, 7/64 an	d US Cl.: 435/7.	2; 530/317, 388.25					
Applicant								
GOVT. OF THE US AS REPR	ESENTED BY TH	E SECRETARY	, D					
1. This opinion contains indic	ations relating to th	ne following item	ıs:					
Box No. 1 B	asis of the opinion							
Box No. II Pr	riority	•						
Box No. III N	No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability							
Box No. IV L	Lack of unity of invention							
	Reasoned statement under Rule 43bis. I(a)(i) with regard to novelly, inventive step or industrial applicability; citations and explanations supporting such statement							
Box No. VI C	ertain documents c	ited						
Box No. VII C	ertain defects in the	international ap	plication	•				
Box No. VIII C	ertain observations	on the internatio	nal application					
2. FURTHER ACTION								
If a demand for internatio International Preliminary	Examining Author	rity ("IPEA") e: and the chosen	cept that this does IPEA has notified th	be considered to be a written opinion of the not apply where the applicant chooses an le International Bureau under Rule 66,1bis(b) ered.				
If this opinion is, as provi IPEA a written reply toget of Form PCT/ISA/220 or b For further options, see Fo	ther, where appropr before the expiration	iate, with amend	lments, before the ex	PEA, the applicant is invited to submit to the pirstion of 3 months from the date of mailing whichever expires later.				
For further options, see For	I C1/13/V220.							
3. For further details, see note	es to Form PCT/IS/	A/220.						
Name and mailing address of the		Date of comple	tion of this opinion	Authorized officery				
Mail Stop PCT, Attn: IS Commissioner for Paten P.O. Box 1450		06 February 20	006 (06.02.2006)	Parithosh & Tongaturine & Garage				
Alexandria, Virginia 22:				Telephone No. (571) 272-0600				

Form PCT/ISA/237 (cover sheet) (April 2005)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.	
PCT/US04/41921	

Box No. I Basis of this opinion					
1. With regard to the language, this opinion has been established on the basis of:					
the international application in the language in which it was filed					
a translation of the international application into, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).					
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:					
a. type of material					
a sequence listing					
table(s) related to the sequence listing					
b. format of material					
On paper					
in electronic form					
c. time of filing/furnishing					
contained in the international application as filed.					
filed together with the international application in electronic form.					
furnished subsequently to this Authority for the purposes of search.					
3. In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filled or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.					
4. Additional comments:					
•					

Form PCT/ISA/237(Box No. I) (April 2005)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US04/41924

is. 1(a)(i) ons supp	with regard to novelty, inventive step or industrial orting such statement	
Claims	NONE	YES
Claims	1-78	_NO
Claims	1-78	YES
Claims	NONE	_NO
Claims	1-78	YES
Claims	NONE	NO
UB 20030 ucleic acid an immun leic acid n	1735868; Priority claimed April 22, 2002) I molecule which encodes an agonist polypeptide antigen der te response, a method for generating an immune response to a noiscule. A method of treating a subject and a presponse to a	ived
	Claims Claims Claims Claims Claims Claims Claims UB 2003 ucleic acid an immune	is.1(a)(0) with regard to novelty, Inventive step or industrial mas supporting such statement Claims NONE Claims 1-78 Claims 1-78 Claims MONE Claims NONE (U.S. Patent 5,861381; date issue any or

most especially of a breast cancer a method of screening a molecule to generate an immune response to a MUC-1 to a tumor antigen. Chambon et al does not teach the method of identifying the molecule to generate an immune response to a MUC-1 to a tumor antigen. Hoogenhoom et al teach agonist polypeptide antigen derived from MUC-1 wherein the agonist polypeptide simulates an immune response and a method of identifying a molecule that has the ability to generate an immune response to MUC-1 wherein the second of identifying a molecule that has the ability to generate an immune response to MUC-1 wherein the second in the second in the second of the second in the second in

application intended for the curative treatment or the prevention of a malignant tumor, more especially of a carcinoma and

method of treating a subject and a method of screening a molecule to generate an immune response to a MUC-1 to a tumor antigen.

Therefore, claims 1-78 lack an inventive step under PCT Article 33(3) as being obvious over Chambon et al and in view of

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